# PROJECT DESCRIPTION

THIS PROJECT INVOLVES INSTALLING APS, RELOCATING A MAST ARM POLE, INSTALLATION OF NEW TRAFFIC SIGNAL CABINET, INSTALLATION OF PEDESTAL POLES AND SIDEWALK RAMP RECONSTRUCTION. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

# INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE FOR THE NORTH AND SOUTH LEGS OF THE INTERSECTION. THE MD 528 LEFT TURNS OPERATE IN EXCLUSIVE-PERMISSIVE PHASING.

### CONTROLLER REQUIREMENTS

A NEW FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL INSTALLED. AN APS CENTRAL CONTROL UNIT SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA.

### CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:

MR. GENE COFIELL ASSISTANT DISTRICT ENGINEER-TRAFFIC PHONE: (410) 677-4040

MR. RAVINDRA GANVIR ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (410) 677-4020

MR. JAMES WRIGHT ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (410) 677-4010

### CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410)787-7630

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF TRAFFIC OPERATIONS PHONE: (410)787-7630

MR. ED RODENHIZER CHIEF, SIGNAL OPERATIONS PHONE: (410)787-7650

MR. EUGENE BAILEY CHIEF, SIGN OPERATIONS PHONE: (410)787-7676

# SPECIAL NOTES

#### APS WILL FUNCTION AS FOLLOWS:

TO CROSS COASTAL HIGHWAY (NORTH LEG):

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS COASTAL HIGHWAY AT 118TH. CROSSWALK ANGLES RIGHT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

TO CROSS COASTAL HIGHWAY (SOUTH LEG):

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS COASTAL HIGHWAY AT 118TH. CROSSWALK ANGLES LEFT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

ΡF

WIRING	KEY

7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

D,E,F,G, 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

(NO. 14 AWG)

500' VIDEO DETECTION CAMERA CABLE K,L,M

2-CONDUCTOR ELECTRICAL CABLE

1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG) - 3 RUNS

12-PAIR COMMUNICATION CABLE, ICN,ICS SELF-SUPPORTING (OVERHEAD)

EXISTING CABLE TO BE DISCONNECTED, PULLED BACK & REROUTED EXR

PROPOSED OVERHEAD POWER

ΕX EXISTING CABLE TO REMAIN

SERVICE BY DELMARVA

STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

EXISTING GROUND ROD

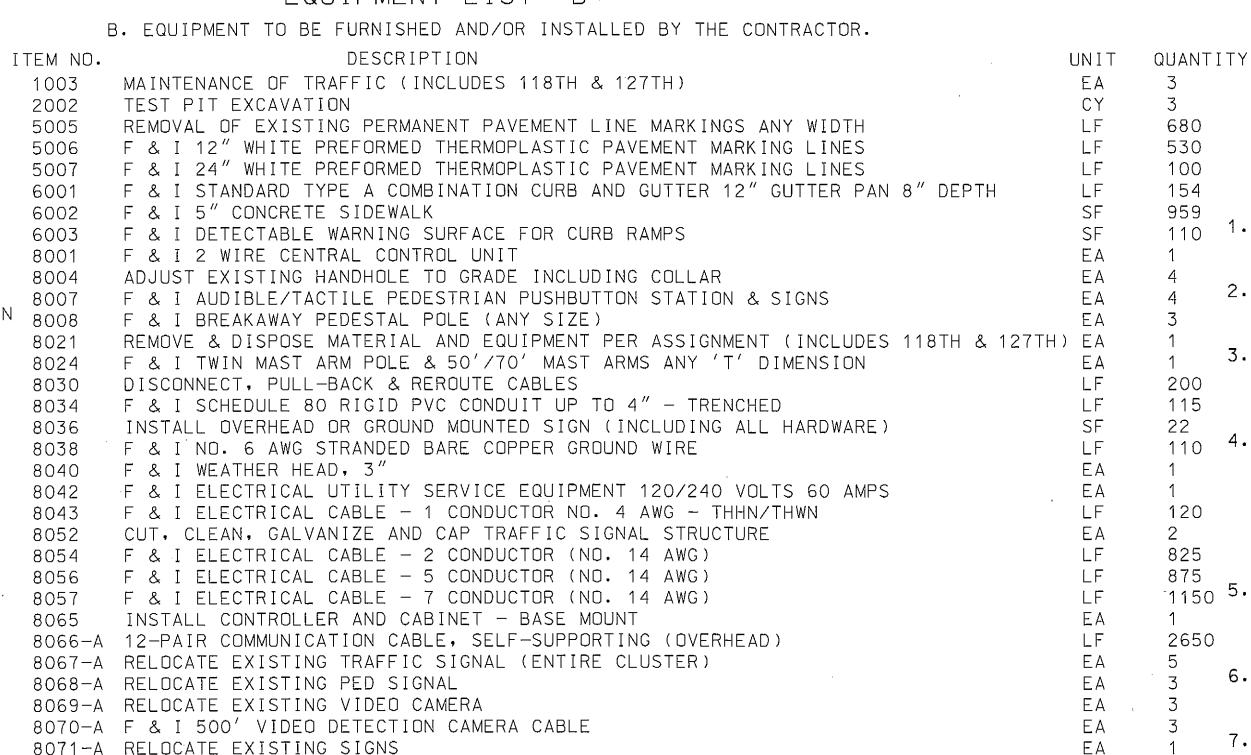
PROPOSED GROUND ROD

# EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

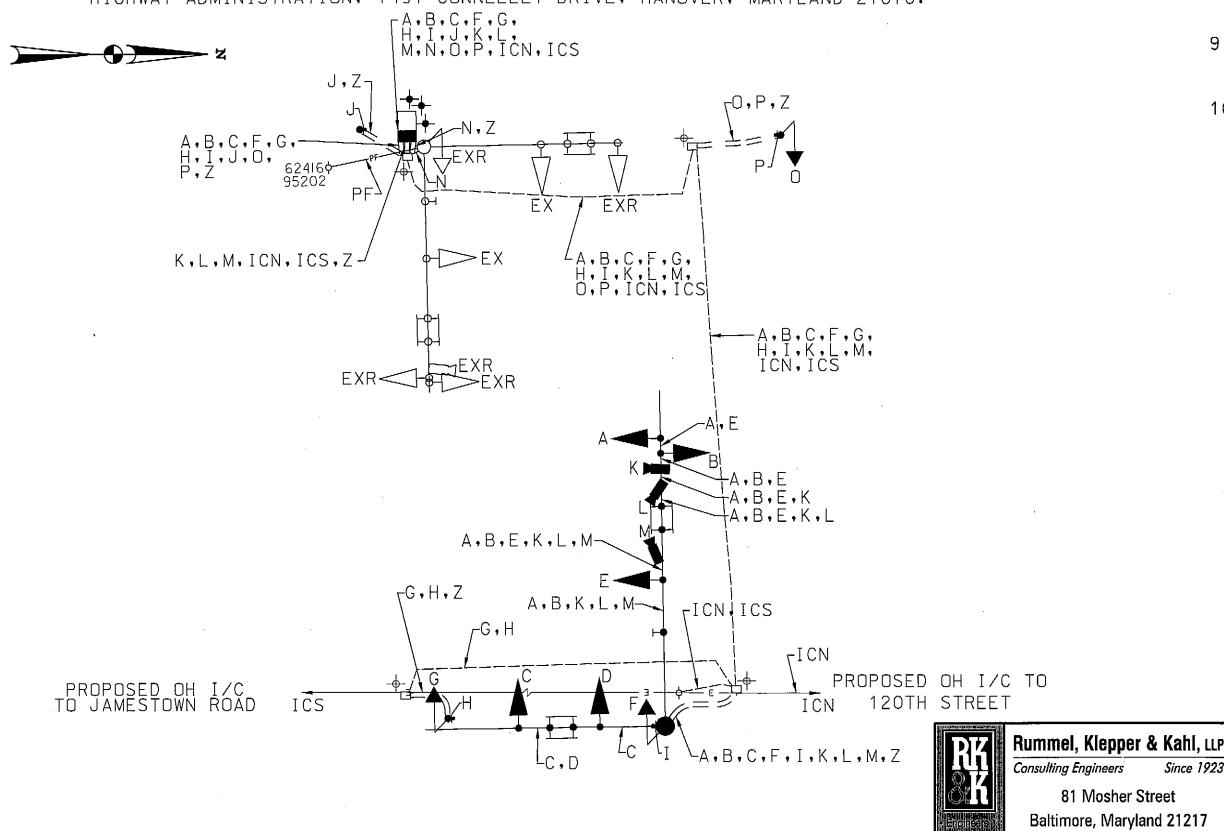
DESCRIPTION ITEM NO. CONTROLLER ASC II WITH TELEMETRY CONTROLLER CABINET, SIZE 6 VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN 2 - D-3(1) (96"X16")

## EQUIPMENT LIST "B"



### EQUIPMENT LIST "C"

C. FQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.



PHASING CHART

UNIT QUANTITY

22

115

Since 1923

www.rkk.com

Ph: 410.728.2900 Fax: 410.728.3160

EΑ

EΑ

NO PHASE CHANGE

### GENERAL NOTES

- 1. ALL EXISTING FOUNDATION TOPS WITHIN EXISTING SIDEWALK SHALL BE REMOVED 2" BELOW SIDEWALK GRADE.
- 2. ALL PROPOSED FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK
- 3. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION, CONTACT MR. EDWARD RODENHIZER AT 410-787-7652 TO COORDINATE.
- 4. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTION 4E.09 AND FIGURE 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- 5. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
  - 6. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE,
  - 7, PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
  - 8. ALL HARDWARE NECESSARY FOR THE INSTALLATION OF RELOCATED TRAFFIC SIGNAL EQUIPMENT SHALL BE INCIDENTAL TO THE PERTINANT RELOCATE PAY
  - 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
  - 10.UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

TOD NO:XX443-06 SHA NO:WO409A53/C53 MD 528@118<sup>TH</sup> ST /127<sup>TH</sup> ST

SHEET NO. 2 OF 7

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 528 (COASTAL HWY.) AT 118TH ST.

DRAWING SG - 2 OF 7

OCEAN CITY, MARYLAND GENERAL INFORMATION SHEET REVISIONS

SCALE | "=20' \_\_ DATE DECEMBER 2008 CONTRACT NO. XX4435185 COUNTY WORCESTER 23052801,96 LOGMILE DAE TIME TIMS NO. J609 FAP NO. TOD NO.

PLOTTED: Thursday, December 18, 2008 AT 12:58 PM FILE: M:\projects\2007\07056\_shahdd\Task06\_MD 528 ADA\CADD\118TH Street\pGI-P000\_118TH.dgn

TS NO. 2262A-GI